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☐ 1. Document ID: US 6824783 B1

L3: Entry 1 of 14

File: USPT

Nov 30, 2004

US-PAT-NO: 6824783

DOCUMENT-IDENTIFIER: US 6824783 B1

TITLE: Methods for inhibition of membrane fusion-associated events, including HIV transmission

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bolognesi; Dani Paul	Durham	NC		
Matthews; Thomas James	Durham	NC		
Wild; Carl T.	Durham	NC		

US-CL-CURRENT: 424/188.1; 424/208.1, 435/5, 530/360

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 6518013 B1

L3: Entry 2 of 14

File: USPT

Feb 11, 2003

US-PAT-NO: 6518013

DOCUMENT-IDENTIFIER: US 6518013 B1

TITLE: Methods for the inhibition of epstein-barr virus transmission employing anti-viral peptides capable of abrogating viral fusion and transmission

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: 435/5; 424/230.1, 530/300, 530/324, 530/325, 530/326

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 3. Document ID: US 6479055 B1

L3: Entry 3 of 14

File: USPT

Nov 12, 2002

US-PAT-NO: 6479055

DOCUMENT-IDENTIFIER: US 6479055 B1

**** See image for Certificate of Correction ****

TITLE: Methods for inhibition of membrane fusion-associated events, including respiratory syncytial virus transmission

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bolognesi; Dani Paul	Durham	NC		
Matthews; Thomas James	Durham	NC		
Wild; Carl T.	Durham	NC		
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		
Langlois; Alphonse J.	Durham	NC		

US-CL-CURRENT: 424/211.1; 424/186.1, 530/324

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 4. Document ID: US 6258363 B1

L3: Entry 4 of 14

File: USPT

Jul 10, 2001

US-PAT-NO: 6258363

DOCUMENT-IDENTIFIER: US 6258363 B1

TITLE: Varicella zoster virus (VZV) immunoreactive protein VP26 and its diagnostic use

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eickmann; Markus	Marburg			DE
Gicklhorn; Dorothee	Gladenbach			DE
Radsak; Klaus	Marburg			DE
Hauser; Hans-Peter	Elnhausen			DE
Giesendorf; Bernhard	Michelbach			DE

US-CL-CURRENT: [424/230.1](#); [424/204.1](#), [435/5](#), [435/7.92](#), [435/7.93](#), [530/300](#), [536/23.72](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 6228983 B1

L3: Entry 5 of 14

File: USPT

May 8, 2001

US-PAT-NO: 6228983

DOCUMENT-IDENTIFIER: US 6228983 B1

**** See image for Certificate of Correction ****

TITLE: Human respiratory syncytial virus peptides with antifusogenic and antiviral activities

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: [530/300](#); [424/186.1](#), [424/211.1](#), [530/324](#), [530/325](#), [530/326](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 6093794 A

L3: Entry 6 of 14

File: USPT

Jul 25, 2000

US-PAT-NO: 6093794

DOCUMENT-IDENTIFIER: US 6093794 A

TITLE: Isolated peptides derived from the Epstein-Barr virus containing fusion inhibitory domains

DATE-ISSUED: July 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: [530/300](#); [424/186.1](#), [424/230.1](#), [530/324](#), [530/325](#), [530/326](#), [530/350](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 6068973 A

L3: Entry 7 of 14

File: USPT

May 30, 2000

US-PAT-NO: 6068973

DOCUMENT-IDENTIFIER: US 6068973 A

TITLE: Methods for inhibition of membrane fusion-associated events, including influenza virus

DATE-ISSUED: May 30, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: 435/5; 424/147.1, 424/206.1, 424/230.1, 530/324, 530/389.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 6060065 A

L3: Entry 8 of 14

File: USPT

May 9, 2000

US-PAT-NO: 6060065

DOCUMENT-IDENTIFIER: US 6060065 A

TITLE: Compositions for inhibition of membrane fusion-associated events, including influenza virus transmission

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: 424/209.1; 424/186.1, 424/192.1, 424/206.1, 530/300, 530/324, 530/325, 530/326, 530/327, 530/328, 530/329, 530/330

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 6054265 A

L3: Entry 9 of 14

File: USPT

Apr 25, 2000

US-PAT-NO: 6054265

DOCUMENT-IDENTIFIER: US 6054265 A

TITLE: Screening assays for compounds that inhibit membrane fusion-associated events

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway, Jr.; Stephen Robert	Cary	NC		

US-CL-CURRENT: 435/5; 435/7.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 10. Document ID: US 6017536 A

L3: Entry 10 of 14

File: USPT

Jan 25, 2000

US-PAT-NO: 6017536

DOCUMENT-IDENTIFIER: US 6017536 A

TITLE: Simian immunodeficiency virus peptides with antifusogenic and antiviral activities

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		
Langlois; Alphonse J.	Durham	NC		

US-CL-CURRENT: 424/188.1; 424/208.1, 530/300, 530/324, 530/325, 530/326

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 1. Document ID: US 6824783 B1

L3: Entry 1 of 14

File: USPT

Nov 30, 2004

US-PAT-NO: 6824783

DOCUMENT-IDENTIFIER: US 6824783 B1

TITLE: Methods for inhibition of membrane fusion-associated events, including HIV transmission

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bolognesi; Dani Paul	Durham	NC		
Matthews; Thomas James	Durham	NC		
Wild; Carl T.	Durham	NC		

US-CL-CURRENT: [424/188.1](#); [424/208.1](#), [435/5](#), [530/360](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 2. Document ID: US 6518013 B1

L3: Entry 2 of 14

File: USPT

Feb 11, 2003

US-PAT-NO: 6518013

DOCUMENT-IDENTIFIER: US 6518013 B1

TITLE: Methods for the inhibition of epstein-barr virus transmission employing anti-viral peptides capable of abrogating viral fusion and transmission

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: [435/5](#); [424/230.1](#), [530/300](#), [530/324](#), [530/325](#), [530/326](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6479055 B1

L3: Entry 3 of 14

File: USPT

Nov 12, 2002

US-PAT-NO: 6479055

DOCUMENT-IDENTIFIER: US 6479055 B1

**** See image for Certificate of Correction ****

TITLE: Methods for inhibition of membrane fusion-associated events, including respiratory syncytial virus transmission

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bolognesi; Dani Paul	Durham	NC		
Matthews; Thomas James	Durham	NC		
Wild; Carl T.	Durham	NC		
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		
Langlois; Alphonse J.	Durham	NC		

US-CL-CURRENT: 424/211.1; 424/186.1, 530/324

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6258363 B1

L3: Entry 4 of 14

File: USPT

Jul 10, 2001

US-PAT-NO: 6258363

DOCUMENT-IDENTIFIER: US 6258363 B1

TITLE: Varicella zoster virus (VZV) immunoreactive protein VP26 and its diagnostic use

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eickmann; Markus	Marburg			DE
Gicklhorn; Dorothee	Gladenback			DE
Radsak; Klaus	Marburg			DE
Hauser; Hans-Peter	Elnhausen			DE
Giesendorf; Bernhard	Michelbach			DE

US-CL-CURRENT: [424/230.1](#); [424/204.1](#), [435/5](#), [435/7.92](#), [435/7.93](#), [530/300](#), [536/23.72](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 5. Document ID: US 6228983 B1

L3: Entry 5 of 14

File: USPT

May 8, 2001

US-PAT-NO: 6228983

DOCUMENT-IDENTIFIER: US 6228983 B1

**** See image for Certificate of Correction ****

TITLE: Human respiratory syncytial virus peptides with antifusogenic and antiviral activities

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: [530/300](#); [424/186.1](#), [424/211.1](#), [530/324](#), [530/325](#), [530/326](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 6. Document ID: US 6093794 A

L3: Entry 6 of 14

File: USPT

Jul 25, 2000

US-PAT-NO: 6093794

DOCUMENT-IDENTIFIER: US 6093794 A

TITLE: Isolated peptides derived from the Epstein-Barr virus containing fusion inhibitory domains

DATE-ISSUED: July 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: [530/300](#); [424/186.1](#), [424/230.1](#), [530/324](#), [530/325](#), [530/326](#), [530/350](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 7. Document ID: US 6068973 A

L3: Entry 7 of 14

File: USPT

May 30, 2000

US-PAT-NO: 6068973

DOCUMENT-IDENTIFIER: US 6068973 A

TITLE: Methods for inhibition of membrane fusion-associated events, including influenza virus

DATE-ISSUED: May 30, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: 435/5; 424/147.1, 424/206.1, 424/230.1, 530/324, 530/389.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 8. Document ID: US 6060065 A

L3: Entry 8 of 14

File: USPT

May 9, 2000

US-PAT-NO: 6060065

DOCUMENT-IDENTIFIER: US 6060065 A

TITLE: Compositions for inhibition of membrane fusion-associated events, including influenza virus transmission

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: 424/209.1; 424/186.1, 424/192.1, 424/206.1, 530/300, 530/324, 530/325, 530/326, 530/327, 530/328, 530/329, 530/330

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 9. Document ID: US 6054265 A

L3: Entry 9 of 14

File: USPT

Apr 25, 2000

US-PAT-NO: 6054265

DOCUMENT-IDENTIFIER: US 6054265 A

TITLE: Screening assays for compounds that inhibit membrane fusion-associated events

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway, Jr.; Stephen Robert	Cary	NC		

US-CL-CURRENT: 435/5; 435/7.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 10. Document ID: US 6017536 A

L3: Entry 10 of 14

File: USPT

Jan 25, 2000

US-PAT-NO: 6017536

DOCUMENT-IDENTIFIER: US 6017536 A

TITLE: Simian immunodeficiency virus peptides with antifusogenic and antiviral activities

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		
Langlois; Alphonse J.	Durham	NC		

US-CL-CURRENT: 424/188.1; 424/208.1, 530/300, 530/324, 530/325, 530/326

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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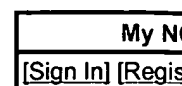
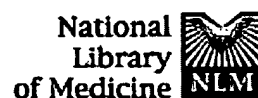
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<input type="checkbox"/>	L8	VP26 and VZV	1
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Identification of genes encoding two capsid proteins (VP24 and VP26) of herpes simplex virus type 1.

Davison MD, Rixon FJ, Davison AJ.

ICI Pharmaceuticals, Biotechnology Department, Macclesfield, Cheshire, U.K.

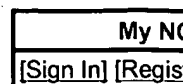
The capsid of herpes simplex virus type 1 is composed of seven proteins. VP5, VP19C, VP22a and VP23 have been shown previously to be the products of genes UL19, UL38, UL26.5 and UL18, respectively. The genes encoding VP21, VP24 and VP26 have not been identified to date. We have determined amino acid sequences of fragments of isolated capsid proteins generated by partial cleavage with CNBr. The results confirm the gene assignments for VP5, VP19C and VP23. They also show that VP26 is the product of gene UL35 and that VP24 contains the protease domain present in the N-terminal portion of the UL26-encoded protein. VP21 was not investigated, but we suggest that it is the C-terminal portion of the UL26-encoded protein remaining after release of VP24 and that it thus corresponds to a form of VP22a extended at the N terminus.

PMID: 1328483 [PubMed - indexed for MEDLINE]

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- ☐ 1: [Muller TF, Gicklhorn D, Jungraithmayr T, Eickmann M, Lange H, Radsak K, Reschke M.](#) Related Articles, Links



Pattern and persistence of the epitope-specific IgM response against human cytomegalovirus in renal transplant patients.

J Clin Virol. 2002 Feb;24(1-2):45-56.

PMID: 11744428 [PubMed - indexed for MEDLINE]

- ☐ 2: [van Zanten J, Harmsen MC, van der Giessen M, van der Bij W, Prop J, de Leij L, The TH.](#) Related Articles, Links



Humoral immune response against human cytomegalovirus (HCMV)-specific proteins after HCMV infection in lung transplantation as detected with recombinant and naturally occurring proteins.

Clin Diagn Lab Immunol. 1995 Mar;2(2):214-8.

PMID: 7535179 [PubMed - indexed for MEDLINE]

- ☐ 3: [Lazzarotto T, Maine GT, Dal Monte P, Ripalti A, Landini MP.](#) Related Articles, Links



A novel Western blot test containing both viral and recombinant proteins for anticytomegalovirus immunoglobulin M detection.

J Clin Microbiol. 1997 Feb;35(2):393-7.

PMID: 9003603 [PubMed - indexed for MEDLINE]

- ☐ 4: [Weber B, Braun W, Cinatl J Jr, Doerr HW.](#) Related Articles, Links



Humoral immune response to human cytomegalovirus infection: diagnostic potential of immunoglobulin class and IgG subclass antibody response to human cytomegalovirus early and late antigens.

Clin Investig. 1993 Apr;71(4):270-6. Review.

PMID: 8386033 [PubMed - indexed for MEDLINE]

- ☐ 5: [Goossens VJ, Vink C, Mullers W, Middeldorp JM, Bruggeman CA.](#) Related Articles, Links



Different profiles of cytomegalovirus RNA transcripts and anti-cytomegalovirus IgM antibodies in renal transplant recipients.

J Clin Virol. 2001 Dec;23(1-2):87-95.

PMID: 11595587 [PubMed - indexed for MEDLINE]









- ☐ 6: [Vornhagen R, Hinderer W, Sonneborn HH, Bein G, Matter L, The TH, Enders G, Jahn G, Plachter B.](#) Related Articles, Links



IgM-specific serodiagnosis of acute human cytomegalovirus infection using recombinant autologous fusion proteins.

J Virol Methods. 1996 Jun;60(1):73-80.

PMID: 8795008 [PubMed - indexed for MEDLINE]

- ☐ 7: [Hebart H, Daginik S, Stevanovic S, Grigoleit U, Dobler A, Baur M, Rauser G, Sinzger C, Jahn G, Loeffler J, Kanz L, Rammensee HG, Einsele H.](#) [Related Articles, Links](#)
-  Sensitive detection of human cytomegalovirus peptide-specific cytotoxic T-lymphocyte responses by interferon-gamma-enzyme-linked immunospot assay and flow cytometry in healthy individuals and in patients after allogeneic stem cell transplantation.
Blood. 2002 May 15;99(10):3830-7.
PMID: 11986243 [PubMed - indexed for MEDLINE]
- ☐ 8: [Braun W, Weber B, Moell U, Hamann A, Doerr HW.](#) [Related Articles, Links](#)
-  Immunoglobulin A and M patterns to human cytomegalovirus during recurrent infection in patients with AIDS using a modified western blot.
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PMID: 8395539 [PubMed - indexed for MEDLINE]
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J Virol Methods. 1991 Dec;35(3):315-29.
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IgM antibody detection of ppUL80A and ppUL32 by immunoblotting: an early parameter for recurrent cytomegalovirus infection in renal transplant recipients.
J Med Virol. 1996 Mar;48(3):289-94.
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Human cytomegalovirus proteins pp65 and immediate early protein 1 are common targets for CD8+ T cell responses in children with congenital or postnatal human cytomegalovirus infection.
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Epitope-specific distribution of IgG subclasses against antigenic domains on glycoproteins of human cytomegalovirus.
J Infect Dis. 1994 Jan;169(1):83-90.
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L4	2215 S VZV
L5	0 S L3 AND L4
L6	0 S L3 AND L1
L7	0 S L3 AND L2
L8	4574 S VARICELLA ZOSTER
L9	0 S L3 AND L8
L10	0 S L1 AND L8
L11	61 S UL26
L12	2 S L11 AND L8
L13	17 S ORF23
L14	0 S L8 AND L13
L15	0 S L13 AND L8

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L12 ANSWER 1 OF 2 . MEDLINE on STN
AN 2002003908 MEDLINE
DN PubMed ID: 11752158
TI Regions of the herpes simplex virus scaffolding protein that are important for intermolecular self-interaction.
AU Preston Valerie G; McDougall Iris M
CS MRC Virology Unit, Institute of Virology, Glasgow G11 5JR, United Kingdom.. v.preston@vir.gla.ac.uk
SO Journal of virology, (2002 Jan) 76 (2) 673-87.
Journal code: 0113724. ISSN: 0022-538X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200201
ED Entered STN: 20020102
Last Updated on STN: 20021218
Entered Medline: 20020111
AB The herpes simplex virus type 1 (HSV-1) scaffolding protein encoded by gene **UL26.5** promotes the formation of the icosahedral capsid shell through its association with the major capsid protein VP5 and through intermolecular interactions with itself. Inside the capsid shell, the **UL26.5** product together with the maturational protease, a minor protein, form a spherical structure which is broken down and released from the capsid during packaging of the viral genome. Selected residues from four internal regions of the HSV-1 scaffolding protein that have significant conservation of amino acids within the scaffolding proteins of alphaherpesviruses were mutated, and the properties of the proteins were examined. Only the HSV-1 scaffolding protein with mutations in the conserved N-terminal domain showed reduced interaction with the **varicella-zoster** virus homologue in a cell-based immunofluorescence assay, providing the first evidence that this domain in the HSV-1 protein is likely to be involved in intermolecular self-interaction. Scaffolding protein with mutations in this domain or in either of two other domains failed to assemble into scaffold-like particles but retained the ability to self-interact, although the aggregates were significant smaller than most of the aggregates formed by the wild-type protein. These results suggest that there are multiple domains involved in the intermolecular self-association of the HSV-1 scaffolding protein that can act independently of one another. This conclusion was supported by the observation that none of the mutant proteins with lesions in an individual domain, including a protein with mutations in a central region previously implicated in self-interaction (A. Pelletier, F. Do, J. J. Brisebois, L. Lagace, and M. G. Cordingley, J. Virol. 71:5197-5208, 1997), interfered with capsid assembly in a baculovirus expression system. A protein mutated in the central region and another conserved domain, both of which had been predicted to form coiled coils, was impaired for capsid formation but still retained the capacity to interact with VP5.
CT Amino Acid Sequence
Animals
Baculoviridae: GE, genetics
Capsid: GE, genetics
Capsid: ME, metabolism
Capsid: UL, ultrastructure
Capsid Proteins

L12 ANSWER 2 OF 2 MEDLINE on STN
AN 92196060 MEDLINE
DN PubMed ID: 1312713
TI Differentiation of multiple domains in the herpes simplex virus 1 protease encoded by the **UL26** gene.
AU Liu F; Roizman B
CS Marjorie B. Kovler Viral Oncology Laboratories, University of Chicago, IL 60637.
NC AI124009 (NIAID)
AI1588-11 (NIAID)
CA47451 (NCI)
SO Proceedings of the National Academy of Sciences of the United States of America, (1992 Mar 15) 89 (6) 2076-80.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199204
ED Entered STN: 19920509
Last Updated on STN: 20000303
Entered Medline: 19920417
AB Previous studies have shown that the herpes simplex virus 1 gene **UL26** encodes a 635-amino acid protease that cleaves approximately 20 amino acids from the carboxyl terminus of itself and of a 329-amino acid product of the **UL26.5** gene. The results of studies with a variety of protease inhibitors showed that the **UL26** protease was inhibited by serine protease inhibitors but not by inhibitors of cysteine protease, aspartic acid protease, or metalloprotease. Mutations resulting in amino acid substitutions, deletions, or insertion of stop codons in the gene or of 20-amino acid stretches into the protease have delineated the dispensable domains I and IV at the amino and carboxyl domains of the gene product. The essential carboxyl-proximal domain (III) can be separated from the essential amino-proximal domain (II) by at least 20 amino acids. The amino-proximal domain is the most conserved region among **varicella-zoster** virus and human cytomegalovirus homologues of **UL26**. Of the conserved aspartic acid, histidine, or serine amino acids in this domain, only histidine-61 and -148 could not be replaced without impairment of the proteolytic activity.
CT Amino Acid Sequence
Animals
Base Sequence